

Storm Data and Unusual Weather Phenomena - January 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ILLINOIS, Northwest

(IL-Z001) JO DAVIESS, (IL-Z002) STEPHENSON, (IL-Z007) CARROLL, (IL-Z009) WHITESIDE, (IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH	01/06/10 18:00 CST		0	Winter Storm
	01/07/10 23:00 CST		0	

A strong Alberta clipper dropped out of the northern Plains spreading snow across much of the region on January 6-7, 2010. Snow began across eastern Iowa during the afternoon of the 6th, before spreading east later in the evening. Snowfall amounts of 6 to 9 inches were common across much of eastern Iowa and northwest Illinois. However, accumulations were in the 2 to 5 inch range in southeast Iowa, western Illinois and extreme northeast Missouri. The highest total reported was 9.8 inches at Bertram in Linn county in eastern Iowa.

The system was mainly forced by the upper levels, where dynamics helped to organize the snow into heavier bands. With a weak surface reflection, winds were also relatively light during the snowfall. This, coupled with temperatures well below normal, yielded snow to liquid ratios in excess of 20:1, and in some cases greater than 25:1. The result was a light, fluffy, and very picturesque snow that piled up quickly. By the morning of the 7th, a dry slot had nosed into parts of the area south of Highway 34, bringing an end to accumulating snows until later in the day. This helped to hold final totals down across southeast Iowa, northeast Missouri and extreme western Illinois. With the system pulling off to the east later on the 7th, wrap around snows brought another inch or two of accumulations to some areas before tapering to flurries.

(IL-Z001) JO DAVIESS, (IL-Z002) STEPHENSON, (IL-Z007) CARROLL, (IL-Z009) WHITESIDE, (IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH	01/17/10 00:00 CST		0	Dense Fog
	01/19/10 11:00 CST		0	

A stagnant weather pattern produced 3 consecutive days of dense fog across much of the region January 16-19, 2010. High pressure brought light winds to the area so little in the way of mixing of the atmosphere occurred. A strong inversion, combined with some snow melt adding low level moisture, trapped widespread stratus and dense fog for several days in a row. Travel was slowed due to the fog but there were no reports of major delays or accidents on the highways.

(IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z035) MCDONOUGH	01/20/10 05:20 CST		0	Ice Storm
	01/20/10 16:00 CST		0	

A strong upper air disturbance moved from Kansas to central Illinois on January 20, 2010. This was combined with a weak surface wave moving along a stationary front that extended from southern Missouri to Kentucky. Temperatures above the surface were above freezing, but below freezing at the ground. The result was an ice storm over much of eastern Iowa, western Illinois and extreme northeast Missouri, with widespread ice accumulations of 1/4 to 1/2 inch. Isolated thunderstorms also roamed across locations south of Highway 34 in southeast Iowa and extreme northeast Missouri. The ice knocked down some 1 to 2 inch diameter tree branches and smaller limbs, as winds gusted to 35 mph. There were also scattered power outages that lasted for up to 2 days, but no major outages were reported. In some areas, numerous accidents and vehicles sliding off the roads were reported.

(IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH	01/25/10 06:00 CST		0	Winter Weather
	01/25/10 22:45 CST		0	

A large upper trough was situated over eastern Canada and across the Ohio Valley January 25-26, 2010. Strong upper air disturbances rotating through the base of the larger trough produced periods of light snow over the region. In addition, strong low pressure in southern Ontario produced a tight pressure gradient across the Midwest. Snowfall was only in the 1 to 3 inch range in eastern Iowa, western Illinois and extreme northeast Missouri. However, northwest winds gusting to 45 to 50 mph caused brief near-blizzard conditions with local whiteouts in rural and open areas. Trained spotters reported visibilities less than 1/4 mile to near zero at times. The worst conditions occurred during the afternoon and evening of January 25, but significant blowing and drifting was still being reported in some areas during the early morning hours of January 26.

IOWA, East Central and Southeast

(IA-Z040) BUCHANAN, (IA-Z041) DELAWARE, (IA-Z042) DUBUQUE, (IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z053) JONES, (IA-Z054) JACKSON, (IA-Z063) IOWA, (IA-Z064) JOHNSON, (IA-Z065) CEDAR, (IA-Z066) CLINTON, (IA-Z067) MUSCATINE, (IA-Z068) SCOTT, (IA-Z076) KEOKUK, (IA-Z077)

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WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE	01/06/10 15:00 CST		0	Winter Storm
	01/07/10 23:55 CST		0	

A strong Alberta clipper dropped out of the northern Plains spreading snow across much of the region on January 6-7, 2010. Snow began across eastern Iowa during the afternoon of the 6th, before spreading east later in the evening. Snowfall amounts of 6 to 9 inches were common across much of eastern Iowa and northwest Illinois. However, accumulations were in the 2 to 5 inch range in southeast Iowa, western Illinois and extreme northeast Missouri. The highest total reported was 9.8 inches at Bertram in Linn county in eastern Iowa.

The system was mainly forced by the upper levels, where dynamics helped to organize the snow into heavier bands. With a weak surface reflection, winds were also relatively light during the snowfall. This, coupled with temperatures well below normal, yielded snow to liquid ratios in excess of 20:1, and in some cases greater than 25:1. The result was a light, fluffy, and very picturesque snow that piled up quickly. By the morning of the 7th, a dry slot had nosed into parts of the area south of Highway 34, bringing an end to accumulating snows until later in the day. This helped to hold final totals down across southeast Iowa, northeast Missouri and extreme western Illinois. With the system pulling off to the east later on the 7th, wrap around snows brought another inch or two of accumulations to some areas before tapering to flurries.

(IA-Z040) BUCHANAN, (IA-Z041) DELAWARE, (IA-Z042) DUBUQUE, (IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z053) JONES, (IA-Z054) JACKSON, (IA-Z063) IOWA, (IA-Z064) JOHNSON, (IA-Z065) CEDAR, (IA-Z066) CLINTON, (IA-Z067) MUSCATINE, (IA-Z068) SCOTT, (IA-Z076) KEOKUK, (IA-Z077) WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE	01/16/10 19:00 CST	0	Dense Fog
	01/19/10 23:30 CST	0	

A stagnant weather pattern produced 3 consecutive days of dense fog across much of the region January 16-19, 2010. High pressure brought light winds to the area so little in the way of mixing of the atmosphere occurred. A strong inversion, combined with some snow melt adding low level moisture, trapped widespread stratus and dense fog for several days in a row. Travel was slowed due to the fog but there were no reports of major delays or accidents on the highways.

(IA-Z051) BENTON, (IA-Z063) IOWA, (IA-Z064) JOHNSON, (IA-Z065) CEDAR, (IA-Z067) MUSCATINE, (IA-Z068) SCOTT, (IA-Z076) KEOKUK, (IA-Z077) WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN	01/20/10 04:30 CST	0	Ice Storm
	01/20/10 14:30 CST	0	

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	01/25/10 22:45 CST	0	

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MISSOURI, Northeast

(MO-Z009) SCOTLAND, (MO-Z010) CLARK	01/06/10 18:00 CST	0	Winter Storm
	01/07/10 23:00 CST	0	

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(MO-Z009) SCOTLAND, (MO-Z010) CLARK

01/16/10 23:00 CST	0	Dense Fog
01/19/10 09:00 CST	0	

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(MO-Z009) SCOTLAND

01/20/10 04:15 CST	0	Ice Storm
01/20/10 11:00 CST	0	

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(MO-Z009) SCOTLAND, (MO-Z010) CLARK

01/25/10 04:30 CST	0	Winter Weather
01/25/10 21:30 CST	0	

A large upper trough was situated over eastern Canada and across the Ohio Valley January 25-26, 2010. Strong upper air disturbances rotating through the base of the larger trough produced periods of light snow over the region. In addition, strong low pressure in southern Ontario produced a tight pressure gradient across the Midwest. Snowfall was only in the 1 to 3 inch range in eastern Iowa, western Illinois and extreme northeast Missouri. However, northwest winds gusting to 45 to 50 mph caused brief near-blizzard conditions with local whiteouts in rural and open areas. Trained spotters reported visibilities less than 1/4 mile to near zero at times. The worst conditions occurred during the afternoon and evening of January 25, but significant blowing and drifting was still being reported in some areas during the early morning hours of January 26.